

23 October 2013

John Traux  
Yellow Jacket Drilling Service  
3922 E University Dr. Suite#1  
Phoenix, AZ 85034

RE: New source

Laboratory Work Order No.: 3101744

Legend Technical Services of Arizona, Inc. is pleased to provide the enclosed analytical results for the aforementioned project. These results relate only to the items tested. This cover letter and the accompanying pages represent the full report for these analyses and should only be reproduced in full. Samples for this project were received by the laboratory on 10/19/13 11:13.

The samples were processed in accordance with the Chain of Custody document and the results presented relate only to the samples tested. The Chain of Custody is considered part of this report.

All samples will be retained by LEGEND for 30 days from the date of this report and then discarded unless other arrangements are made.

This entire report was reviewed and approved for release by the undersigned. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

**LEGEND TECHNICAL SERVICES OF ARIZONA, INC.**

DRAFT REPORT  
DATA SUBJECT TO CHANGE  
(602) 324-6100

*This laboratory report is confidential and is intended for the sole use of LEGEND and it's client.*

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Type	Date Sampled	Date Received
DRAFT: Z 1,775 (Hamp Well #3)	3101744-01	Drinking Water	Grab	10/18/13 23:00	10/19/13 11:13
DRAFT: Travel Blank	3101744-02	DI Water	Grab	10/18/13 23:00	10/19/13 11:13

#### Sample Condition Upon Receipt:

Temperature: 6.00 C

All samples were received in acceptable condition unless noted otherwise in the case narrative.

#### Case Narrative:

**Holding Times:** All holding times were met unless otherwise qualified.

**QA/QC Criteria:** All analyses met method requirements unless otherwise qualified.

**Certifications:** AZ(PHX)0004, AZ(TUC)0004, AIHA#102982, CDC ELITE Member.

Accreditation is applicable only to the test methods specified on each scope of accreditation held by LEGEND.

**Comments:** There were no problems encountered during the processing of the samples, unless otherwise noted.  
All samples were analyzed on a "wet" basis unless designated as "dry weight".

Client notified of the Total Coliform result via email by the micro analyst on 10/21. LP  
Notified client via email on 10/21/13 that the 48-hour short hold parameters would be analyzed past hold-time due to being received during weekend hours (Asbestos, Color, Odor, NO2). Normally, the NO2 can be analyzed during the weekend hours, but due to the matrix of the sample, it required significant more time for analysis.

Sample was turbid resulting in apparent color. In order to attempt to record the true color, the sample was centrifuged at 4500 rpm for 10 minutes. This resulted in a pellet at the bottom of the sample. The supernatant was poured off, but the sample remained very turbid. This centrifugation process was run again, resulting in another smaller pellet. The supernatant was again poured off and the true color was taken from this.

CL 10/22/13

Yellow Jacket Drilling Service  
3922 E University Dr. Suite#1  
Phoenix, AZ 85034

Project: New source  
Project Number: New source 13-0111 AZ 10/18/13  
Project Manager: John Traux

Reported:  
10/23/13 11:39

**DRAFT: Z 1,775 (Hamp Well #3) (3101744-01) Drinking Water (Grab) Sampled: 10/18/13 23:00 Received: 10/19/13 11:13**

Analyte	Result	PQL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Legend Technical Services of Arizona, Inc.

**DRAFT: Microbiology**

Total Coliforms, MPN	>23	1.1 MPN/100 mL	1	B3J0632	10/19/13 11:35	10/19/13 11:35	SM 9221B		
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**DRAFT: Total Metals**

Antimony	<0.0050	0.0050	mg/L	10	B3J0604	10/21/13 16:40	10/22/13 16:46	EPA 200.8	D1
Arsenic	0.0111	0.0100	mg/L	10	B3J0604	10/21/13 16:40	10/22/13 16:46	EPA 200.8	D1
Cadmium	<0.0010	0.0010	mg/L	10	B3J0604	10/21/13 16:40	10/22/13 16:46	EPA 200.8	D1
Lead	0.0216	0.0100	mg/L	10	B3J0604	10/21/13 16:40	10/22/13 16:46	EPA 200.8	D1
Selenium	<0.0200	0.0200	mg/L	10	B3J0604	10/21/13 16:40	10/22/13 16:46	EPA 200.8	D1
Silver	<0.0010	0.0010	mg/L	10	B3J0604	10/21/13 16:40	10/22/13 16:46	EPA 200.8	D1
Thallium	<0.0050	0.0050	mg/L	10	B3J0604	10/21/13 16:40	10/22/13 16:46	EPA 200.8	D1

**DRAFT: Inorganic Chemistry**

Color	200	1	Color Units	1	B3J0592	10/21/13 10:30	10/21/13 10:30	SM 2120 B	H3, N1
Nitrate as N	<0.10	0.10	mg/L	1	[CALC]	10/21/13 16:47	10/21/13 16:47	Calculation	
Nitrite as N	<0.10	0.10	mg/L	1	B3J0625	10/21/13 16:47	10/21/13 16:47	SM 4500 NO2 B	H3
Threshold Odor Number	<1	1	T.O.N.	1	B3J0593	10/21/13 10:30	10/21/13 10:30	EPA 140.1	H3
pH	9.5		pH Units	1	B3J0602	10/21/13 08:30	10/21/13 08:30	SM 4500H B	H5
Temperature	15.2		°C	1	B3J0602	10/21/13 08:30	10/21/13 08:30	pH Temperature	H5

DRAFT REPORT

Laboratory Work Order No.: 3101744

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Yellow Jacket Drilling Service  
3922 E University Dr. Suite#1  
Phoenix, AZ 85034

Project: New source  
Project Number: New source 13-0111 AZ 10/18/13  
Project Manager: John Traux

Reported:  
10/23/13 11:39

**DRAFT: Total Metals - Quality Control**  
**Legend Technical Services of Arizona, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3J0604 - EPA 200.8**

**Blank (B3J0604-BLK1)**

Prepared: 10/21/13 Analyzed: 10/22/13

Antimony	<0.0005	0.0005	mg/L							
Arsenic	<0.0010	0.0010	mg/L							
Cadmium	<0.0001	0.0001	mg/L							
Lead	<0.0010	0.0010	mg/L							
Selenium	<0.0020	0.0020	mg/L							
Silver	<0.0001	0.0001	mg/L							
Thallium	<0.0005	0.0005	mg/L							

**LCS (B3J0604-BS1)**

Prepared: 10/21/13 Analyzed: 10/22/13

Antimony	0.0276	0.0005	mg/L	0.0250		111	85-115			
Arsenic	0.0255	0.0010	mg/L	0.0250		102	85-115			
Cadmium	0.0264	0.0001	mg/L	0.0250		106	85-115			
Lead	0.0279	0.0010	mg/L	0.0250		112	85-115			
Selenium	0.0254	0.0020	mg/L	0.0250		102	85-115			
Silver	0.0271	0.0001	mg/L	0.0250		108	85-115			
Thallium	0.0267	0.0005	mg/L	0.0250		107	85-115			

**LCS Dup (B3J0604-BSD1)**

Prepared: 10/21/13 Analyzed: 10/22/13

Antimony	0.0271	0.0005	mg/L	0.0250		108	85-115	2	20	
Arsenic	0.0245	0.0010	mg/L	0.0250		98	85-115	4	20	
Cadmium	0.0259	0.0001	mg/L	0.0250		104	85-115	2	20	
Lead	0.0272	0.0010	mg/L	0.0250		109	85-115	2	20	
Selenium	0.0250	0.0020	mg/L	0.0250		100	85-115	2	20	
Silver	0.0263	0.0001	mg/L	0.0250		105	85-115	3	20	
Thallium	0.0268	0.0005	mg/L	0.0250		107	85-115	0.3	20	

**Matrix Spike (B3J0604-MS1)**

Source: 3101731-01

Prepared: 10/21/13 Analyzed: 10/22/13

Antimony	0.0283	0.0005	mg/L	0.0250	0.00003	113	70-130			
Arsenic	0.0317	0.0010	mg/L	0.0250	0.0078	95	70-130			
Cadmium	0.0256	0.0001	mg/L	0.0250	<0.0001	102	70-130			
Lead	0.0266	0.0010	mg/L	0.0250	0.0001	106	70-130			
Selenium	0.0253	0.0020	mg/L	0.0250	0.0019	94	70-130			
Silver	0.0227	0.0001	mg/L	0.0250	<0.0001	91	70-130			
Thallium	0.0246	0.0005	mg/L	0.0250	<0.0005	98	70-130			

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Project Number: New source 13-0111 AZ 10/18/13  
Project Manager: John Traux

Reported:  
10/23/13 11:39

**DRAFT: Total Metals - Quality Control**  
**Legend Technical Services of Arizona, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3J0604 - EPA 200.8**

**Matrix Spike (B3J0604-MS2)**

Source: 3101731-09

Prepared: 10/21/13 Analyzed: 10/22/13

Antimony	0.0277	0.0005	mg/L	0.0250	0.00003	111	70-130			
Arsenic	0.0313	0.0010	mg/L	0.0250	0.0064	99	70-130			
Cadmium	0.0252	0.0001	mg/L	0.0250	0.00002	101	70-130			
Lead	0.0265	0.0010	mg/L	0.0250	0.00008	106	70-130			
Selenium	0.0246	0.0020	mg/L	0.0250	0.0008	95	70-130			
Silver	0.0236	0.0001	mg/L	0.0250	<0.0001	95	70-130			
Thallium	0.0247	0.0005	mg/L	0.0250	<0.0005	99	70-130			

**Matrix Spike Dup (B3J0604-MSD1)**

Source: 3101731-01

Prepared: 10/21/13 Analyzed: 10/22/13

Antimony	0.0305	0.0005	mg/L	0.0250	0.00003	122	70-130	8	20	
Arsenic	0.0343	0.0010	mg/L	0.0250	0.0078	106	70-130	8	20	
Cadmium	0.0269	0.0001	mg/L	0.0250	<0.0001	108	70-130	5	20	
Lead	0.0284	0.0010	mg/L	0.0250	0.0001	113	70-130	7	20	
Selenium	0.0270	0.0020	mg/L	0.0250	0.0019	100	70-130	6	20	
Silver	0.0256	0.0001	mg/L	0.0250	<0.0001	102	70-130	12	20	
Thallium	0.0263	0.0005	mg/L	0.0250	<0.0005	105	70-130	7	20	

**Matrix Spike Dup (B3J0604-MSD2)**

Source: 3101731-09

Prepared: 10/21/13 Analyzed: 10/22/13

Antimony	0.0283	0.0005	mg/L	0.0250	0.00003	113	70-130	2	20	
Arsenic	0.0313	0.0010	mg/L	0.0250	0.0064	99	70-130	0.1	20	
Cadmium	0.0256	0.0001	mg/L	0.0250	0.00002	102	70-130	2	20	
Lead	0.0268	0.0010	mg/L	0.0250	0.00008	107	70-130	1	20	
Selenium	0.0255	0.0020	mg/L	0.0250	0.0008	99	70-130	3	20	
Silver	0.0239	0.0001	mg/L	0.0250	<0.0001	96	70-130	1	20	
Thallium	0.0246	0.0005	mg/L	0.0250	<0.0005	98	70-130	0.3	20	

DRAFT REPORT

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3922 E University Dr. Suite#1  
Phoenix, AZ 85034

Project: New source  
Project Number: New source 13-0111 AZ 10/18/13  
Project Manager: John Traux

Reported:  
10/23/13 11:39

**DRAFT: Inorganic Chemistry - Quality Control**  
**Legend Technical Services of Arizona, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3J0592 - NO PREP</b>										
<b>Duplicate (B3J0592-DUP1)</b>		<b>Source: 3101744-01</b>		<i>Prepared &amp; Analyzed: 10/21/13</i>						
Color	200	1	Color Units	200				0	20	
<b>Batch B3J0602 - NO PREP</b>										
<b>Duplicate (B3J0602-DUP1)</b>		<b>Source: 3101744-01</b>		<i>Prepared &amp; Analyzed: 10/21/13</i>						
pH	9.5		pH Units	9.5				0	10	H5
<b>Batch B3J0625 - NO PREP</b>										
<b>Blank (B3J0625-BLK1)</b>				<i>Prepared &amp; Analyzed: 10/21/13</i>						
Nitrite as N	<0.10	0.10	mg/L							
<b>LCS (B3J0625-BS1)</b>				<i>Prepared &amp; Analyzed: 10/21/13</i>						
Nitrite as N	0.202	0.10	mg/L	0.200		101	80-120			
<b>LCS Dup (B3J0625-BSD1)</b>				<i>Prepared &amp; Analyzed: 10/21/13</i>						
Nitrite as N	0.202	0.10	mg/L	0.200		101	80-120	0	20	
<b>Matrix Spike (B3J0625-MS1)</b>		<b>Source: 3101817-01</b>		<i>Prepared &amp; Analyzed: 10/21/13</i>						
Nitrite as N	0.193	0.10	mg/L	0.200	<0.10	96	80-120			
<b>Matrix Spike (B3J0625-MS2)</b>		<b>Source: 3101837-06</b>		<i>Prepared &amp; Analyzed: 10/21/13</i>						
Nitrite as N	0.193	0.10	mg/L	0.200	<0.10	96	80-120			
<b>Matrix Spike Dup (B3J0625-MSD1)</b>		<b>Source: 3101817-01</b>		<i>Prepared &amp; Analyzed: 10/21/13</i>						
Nitrite as N	0.191	0.10	mg/L	0.200	<0.10	96	80-120	1	20	

DRAFT REPORT

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Yellow Jacket Drilling Service  
3922 E University Dr. Suite#1  
Phoenix, AZ 85034

Project: New source  
Project Number: New source 13-0111 AZ 10/18/13  
Project Manager: John Traux

Reported:  
10/23/13 11:39

**DRAFT: Inorganic Chemistry - Quality Control**  
**Legend Technical Services of Arizona, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3J0625 - NO PREP**

**Matrix Spike Dup (B3J0625-MSD2)**

Source: 3101837-06

Prepared & Analyzed: 10/21/13

Nitrite as N	0.195	0.10	mg/L	0.200	<0.10	97	80-120	1	20	
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DRAFT REPORT

Laboratory Work Order No.: 3101744

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Yellow Jacket Drilling Service  
3922 E University Dr. Suite#1  
Phoenix, AZ 85034

Project: New source  
Project Number: New source 13-0111 AZ 10/18/13  
Project Manager: John Taux

Reported:  
10/23/13 11:39

### Notes and Definitions

N1 See case narrative.

H5 This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.

H3 Sample was received and /or analysis was requested past holding time.

D1 Sample required dilution due to matrix.

BLK Method Blank

LCS/Dup Laboratory Control Sample/Laboratory Fortified Blank/Duplicate

MS/Dup Matrix Spike/Duplicate

Dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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DRAFT REPORT

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T = 1,100 to T = 2,000, every 15 minutes.  
T = 2,000 to T = 3,000, every 30 minutes.

3101744  
2 of 3

If the pump is shut off for any reason during the pumping portion of the test, it shall remain shut off for 24 hours and the complete test shall be rerun.

The pump must remain in place until all recovery measurements are completed.

Upon completion of the test, recorded measurements shall be turned over to Project Engineer for analysis.

#### 2.14 WATER QUALITY TESTING

Near the end of the constant-rate test, the Contractor will collect and properly preserve a suite of water samples. The laboratory listed below will provide appropriate sample containers. Analyses for the chemical constituents listed below shall be performed at the Contractor's expense and the results given to the Project Engineer.

Water quality analysis and methods are based on the National Primary Drinking Water Regulations as found in the Code of Federal Regulations (CFR) Title 40 Part 141. A summary of the National Primary Drinking Water Regulations are attached as Appendix E.

The water quality testing laboratory shall be EPA certified. The water quality testing shall be performed by Legend Technical Services, Inc., 17631 North 25th Avenue, Phoenix, AZ 85023, Phone: (602) 324-6100 or approved equal. When contacting Legend Technical Services the Contractor shall request sample containers for a "new source approval" test for groundwater. As the well is a "new source", there is no need to test for disinfectants or disinfection byproducts.

The "new source approval" test from Legend Technical Services shall comply with the most recent version of the National Primary Drinking Water Regulations and shall test for the following general classes of contaminants:

1. Microorganisms
2. Organic Chemicals
3. Inorganic Chemicals
4. Radionuclides

C:\Sanitation Facilities\Compliance\AZ\op\ES7 Hopi Arsenic Mitigation Project\ContractAgreements\EA 11-1214 - Project Manual\1 - Organics\13 Well2\_Specs.doc

- 39 -

+ Potassium  
+ bicarbonate

Yellow Jacket Drilling Service  
3922 E University Dr. Suite#1  
Phoenix, AZ 85034

Project: New source  
Project Number: New source 13-0111 AZ 10/18/13  
Project Manager: John Traux

Reported:  
10/23/13 11:39

**RUSH NOTICE**

~~3-day~~  
Results end of day 10/22

W.O. #: 3101699  
3101453  
3101744

Company: Yellow Jacket Drilling Phone: \_\_\_\_\_  
Contact: Vern

Prelim Due Date: \_\_\_\_\_ Final Due Date: \_\_\_\_\_

Analysis: Arsenic (turbid)

Number of Samples: 3+ ? Date Samples Expected: 10/18, 10/21

Matrix: DW Expiration Date: \_\_\_\_\_

Supervisor Approval	Inorganics: _____	Specifics: _____
	Metals <u>MR</u> <u>10/21/13</u>	Specifics: _____
	Micro: _____	Specifics: _____
	SOC: _____	Specifics: _____
	VOC: _____	Specifics: _____
	Sub1: _____	Specifics: _____
	Sub2: _____	Specifics: _____

Comments: \_\_\_\_\_  
602-471-0796

COST: \_\_\_\_\_ Project Manager: Cony  
RUSH Initiator: Lisa

FORM GEN-086.1 (10/05)

DRAFT REPORT

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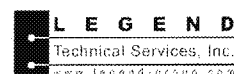
Yellow Jacket Drilling Service  
3922 E University Dr. Suite#1  
Phoenix, AZ 85034

Project: New source  
Project Number: New source 13-0111 AZ 10/18/13  
Project Manager: John Traux

Reported:  
10/23/13 11:39

Laboratory Sample ID:  
**3101744**

## CHAIN OF CUSTODY RECORD



☒ 7631 N. 25th Avenue • Phoenix, AZ 85023 • (602) 324-6100 • Fax (602) 324-6101  
☐ 4585 S. Palo Verde Rd, Ste 423 • Tucson, AZ 85706 • (520) 327-1234 • Fax (520) 327-0518

Page **1** of **3**

Please Print Clearly

CLIENT INFORMATION		Address		City	State	Zip	Phone	Fax Number or Email Address		
Client Name <b>YELLOW JACKET DRILLING SVCS</b>		PO Box 801		<b>GILBERT</b>	<b>AZ</b>	<b>85244</b>	<b>602-453-3252</b>	<b>verneydrilling.com</b>		
Project Name <b>New Source</b>		Project Number/PWS <b>13-0111 AZ</b>		Contact <b>Vern</b>	P.O. No.		Fax Results <input type="checkbox"/>	GC Report <input type="checkbox"/> EDD <input type="checkbox"/>		
SAMPLE TYPE CODES		TURN AROUND TIME		REQUESTED ANALYSES						
DW=Drinking Water WW=Wastewater SW=Surface Water G=Groundwater O=Other		Laboratory Authorization Required for Rush <input checked="" type="checkbox"/> Standard 15-20 Working Days for all others <input checked="" type="checkbox"/> Other Rush for Arsenic Laboratory Authorization Required		Metals* Asbestos Cyanide Nitrate, Nitrite Langlier Index Total Coliform Sulfate Fluoride Total Hardness 505, 515, 525 531, 547, 548 524, Dioxin 504 Gross Alpha Radium 226/222						
Client's	Date	Time	Sample Location/POE/DWR	Composite	Grab	Sample Type	Compliance	No. of Containers	pH <input checked="" type="checkbox"/> (Lab Use Only)	LAB NO.
Blank				X	DW				X	01
Travel Blank (Do Not Open)				X	DI			3		02
21,775	10/14/13	23:00	HAMP Well #3	X	DW			31		01
<b>RUSH</b>										
AS = 10/22/13										
WEEKEND/HOLIDAY SAMPLES										
TO ENSURE COMPLETION OF ANALYSIS, SAMPLES MUST BE RECEIVED AT LEAST 3 HOURS PRIOR TO THE HOLD TIME EXPIRATION										
Comments / Special Instructions: *Metals= Sb, As, Bb, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Na, Ti **Langlier Index= Ca, Alkalinity, TDS, pH ***Total Hardness= Ca, Mg										
If sample source is chlorinated, different sample containers/preservatives must be used for dechlorination. List of tests required accompanies CoC Drinking water standards										
SAMPLE CONDITION UPON RECEIPT (Lab Use)		RELINQUISHED BY								
No. of Containers	54	① Sampler Signature <i>Sherry Frize</i> Date 10/13/13								
Temperature	6.0°C	Sampler Printed Name <b>SHERRY FRIZE</b> Time 13:54								
Custody Seals	Y (N)	② Signature <i>Sherry Frize</i> Date 10/14/13								
Seals Intact	Y (N)	Printed Name <b>Sherry Frize</b> Time 08:56								
Preserved	Y (N)	③ Signature <i>Manuel Mullins</i> Date 10/13/13								
		Printed Name <b>Manuel Mullins</b> Time 11:13								
		SAMPLES RECEIVED BY								
		Signature <i>Manuel Mullins</i> Date 10/18/13								
		Printed Name <b>Manuel Mullins</b> Time 23:58								
		Signature <i>Manuel Mullins</i> Date 10/19/13								
		Printed Name <b>Manuel Mullins</b> Time 08:56								
		Signature <i>Manuel Mullins</i> Date 10/19/13								
		Printed Name <b>Manuel Mullins</b> Time 11:13								

WHITE-LAB YELLOW-CLIENT

FORM GEN-170 (05/09)

OK to run past hold, split @ lab for TOC 10/21/13

DRAFT REPORT

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